

Steering Gears & Linkage

COURIER RECIRCULATING BALL (Cont.)

7) Remove upper control arm-to-support bracket bolts and nuts, noting number and locations of shims so correct wheel alignment is maintained when shims are reinstalled.

8) Remove steering gear box retaining bolts and nuts and remove steering gear assembly.

Installation — To install, reverse removal procedure and place shim in original position between steering gear housing and frame to obtain proper clearance. Fill gear housing with SAE 90 oil. Bleed brake and clutch systems.

STEERING LINKAGE

Center link can be removed from both tie rods, pitman arm, and idler arm by removing ball joint nuts and using suitable puller. After center link removal, pitman arm can be removed from sector shaft. Tie rods can also be removed with puller. Toe-in must be reset when tie rods or ball joints are replaced.

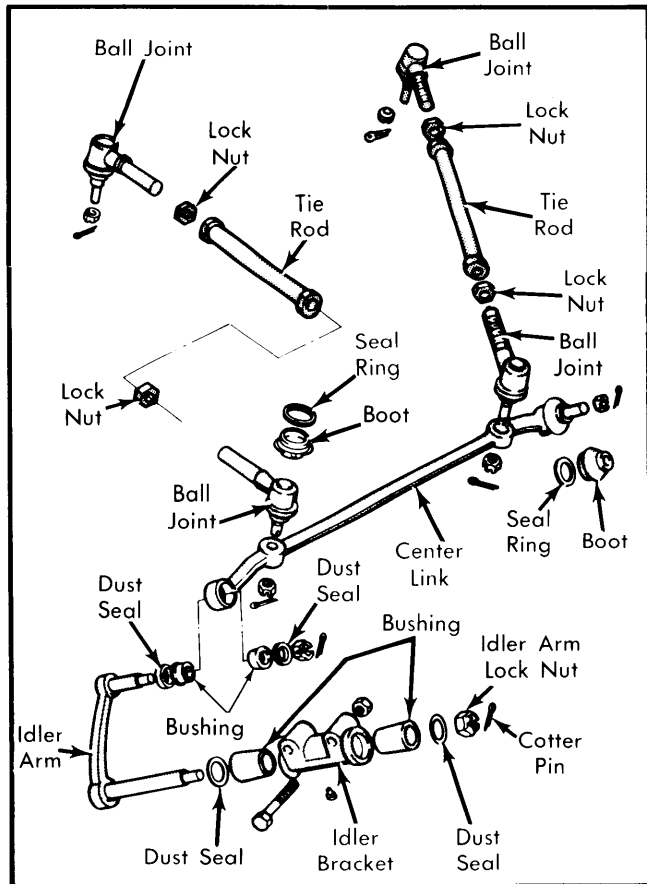


Fig. 2 Exploded View of Courier Steering Linkage

OVERHAUL

STEERING GEAR

Disassembly — With gear removed and drained, position gear in vise. Remove pitman arm from gear. Remove sector shaft adjusting screw lock nut. Take off side cover by removing bolts and turning adjusting screw clockwise. Remove adjusting screw and shim from sector shaft. Extract shaft from housing. Remove worm shaft and ball-nut assembly through bottom of housing after end cover and shims are removed.

Inspection — Check operation of ball-nut assembly on worm shaft. If travel is not smooth or any part is worn, replace entire assembly. Check and replace all other components as necessary.

Reassembly & Adjustment — 1) Insert worm shaft and ball-nut assembly into gear housing. Install end cover and shims. Adjust bearing preload, as previously described. Place adjusting screw in slot of sector shaft and check end clearance. Adjust clearance to 0-.004" (0-.10 mm) by adding or subtracting shims.

2) Turn worm shaft and place rack in center position of worm. Insert sector shaft and adjusting screw into gear housing, being careful not to damage bushings or seal. Align center of sector gear with center of rack. Place side cover on adjusting screw, turn screw to position cover, then install cover retaining bolts.

3) Adjust sector gear and rack backlash, as previously described. Tighten adjusting screw lock nut. Install pitman arm to sector shaft and torque to specification.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N·m)
Column Support Bracket	12-17 (16-23)
Gear-to-Frame	33-41 (45-56)
Pitman Arm-to-Gear	108-130 (147-177)
Side Cover Bolts	12-17 (16-23)
Steering Wheel Nut	22-29 (30-39)

INCH Lbs. (N·m)

Column Jacket Clamp-to-Gear	84-108 (9.2-11.9)
Meshload Adjusting Screw Lock Nut	23-34 (2.5-3.7)